



Figure 4. Sample observations from EARNY (East Rockaway, NY). Installation consisted of a REF TEK data logger and a CMG40T sensor placed on the surface in a small fiberglass enclosure.

a) Shear wave splitting measurement on an SKS phase. Waveforms are filtered in 0.025-0.3 Hz passband. Upper panels show observed data, lowerpanels show waveforms corrected for the effect of anisotropy. Splitting parameters are shown in the lower right panel: fast direction $\phi = 109.12^\circ$, delay is 0.41 s. Note reduced ellipticity of particle motion. This observation agrees well with measurements further inland (Levin et al, 2000), suggesting continuity of structures. **b)** PKiKP phase from an earthquake 143° away is particularly bright due to a caustic in the travel time curve. Waveforms are filtered in 0.025-1.5Hz passband. Motion on horizontal components is a result of near-surface reverberations that form data for receiver function analysis. Of particular interest is SH-polarized motion (T component) indicative of lateral heterogeneity and/or anisotropy. **c)** Location of the station on the oceanward shore of Long Island.